

Integrated Management of Forest Landscapes for Ecological and Social Values:

Using ecological forestry for forestland management

June 29–July 1, 2004

**H.J. Andrews Experimental Forest, Blue River, Ore.
and**

**July 2 Optional Field Day to Wind River Canopy Crane,
Gifford Pinchot National Forest**

Instructor: Jerry Franklin

Join Jerry Franklin for this three-day course designed for land managers with an interest in managing for conservation objectives. The importance of managing the unreserved portions of the forested landscape, or matrix lands, to maintain diversity and essential ecological services will be introduced. In this context, matrix refers to not only the majority of public lands that are not classified as conservation reserves, but private forests too.

Matrix lands are essential for providing habitat and connecting reserves as well as providing economic goods and services. The question facing almost all managers is how to balance the competing needs of economic production and ecological quality. This course offers a set of solutions to achieve a balance in forest management. Participants will learn the scientific basis of ecological forestry and view field applications of these principles. Participants will learn how to apply the suite of ecological forestry practices to their specific forest lands at the stand-level within the context of their unique management constraints. Participants will also learn how stand-level actions relate to other spatial scales—forest, ecosystem and landscape.

The course will place an emphasis on practical and feasible practices to meet multiple management goals. Participants will learn to:

1. Assess management and conservation objectives.
2. Adapt or change current forestry practices.
3. Make silvicultural prescriptions under the ecological forestry framework.
4. Use ecological forestry prescriptions to meet forestry objectives.

Sponsored by the Conservation Fund and Interforest LLC

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About the Instructor

Dr. Jerry Franklin is Professor of Ecosystem Analysis in the College of Forest Resources, University of Washington, Seattle. He is a senior consultant for Interforest, LLC. Previously, he was Chief Plant Ecologist, USDA Forest Service, and Professor of Forest Science and Botany at Oregon State University. He also served as Director of the Ecosystem Studies Program of the National Science Foundation. He is one of the pioneers of forest ecosystem research, with specializations in structure and function of natural forest ecosystems; successional processes following catastrophic disturbances; effects of changing environmental conditions on forest processes; application of ecological principles to the management of natural resources; and theory and practical applications of landscape ecology. He is a past president of the Ecological Society of America and has served on the Board of Governors of the Nature Conservancy. He has served on the Forest Ecosystem Management Assessment Team, the Sierra Nevada Ecosystem Project, and the American Indian Forestry Management Assessment Team. His research is documented in nearly 300 publications.

Agenda

Tuesday, June 29, 2004

I. Natural stand development

8:00 a.m. Classroom: Introduction to ecological forestry: A comprehensive perspective on matrix management: maintaining habitat at all spatial scales:

1. Management of the ecological matrix, or non-reserved lands.
2. Natural disturbances & patterns of stand development as models for designing silvicultural prescriptions.
3. Variable retention harvesting.
4. The importance of forest management from a conservation perspective.

Three-legged stool of ecological forestry:

1. Retention of structures and organisms at regeneration harvest.
2. Creation of structural complexity through active management of stands.
3. Long rotations

10:00 Field: Old growth watershed walk in H.J. Andrews Experimental Forest.

1. Young and mature stands and introduction to phases of forest development.
2. Lengthening rotations to deal with watershed impacts.

12:30 p.m. Lunch

1:30 Riparian areas:

Aquatic conservation strategies--what are the goals and how do you achieve them?

1. Road systems and stream crossings.
2. Riparian buffer zones in timber harvests.

3:30 200 Year log decay study sites

4:30 Summary and questions. Return to Andrews Headquarters

6:30 Dinner

7:00 Open forum with Dr. Jerry Franklin

Wednesday, June 30, 2004

II. Field: East Side of the Cascades

8:00 a.m. Visit the site of a stand-replacing fire at the B&B Complex.

The Ecology of fire disturbance:

1. Introduction and review of east side forest structure.
2. The wildlife habitat value of forest legacies.
3. Fire salvage and restoration issues.

11:00 Effective fuel reduction treatments and silvicultural prescriptions: planning and application

12:00 Lunch

1:00 p.m. Fuels treatments continued

5:30 Return to Andrews headquarters

6:30 Dinner

Thursday, July 1, 2004

III. Ecological forestry. Landscape-level considerations in the matrix: protected habitat at the patch level and the importance of patch content.

8:00 The Blue River strategy. Field visits to sites that exemplify: ecological legacies, retention harvests, and burned areas.

12:00 Lunch

1:00 Field and wrap up: Examples of structural restoration:

1. Management of young stands to accelerate development of structural complexity.
2. Variable density thinning: planning and marking.
3. Comparison of habitat values between thinned and unthinned stands.

3:00 Return to Andrews and session adjourns.

**Optional Wind River Field Session
Gifford Pinchot National Forest
Friday, July 2, 2004**

--Additional \$175 fee which includes on-site transportation and lunch--

8:00 a.m. Visit the canopy of an old-growth forest stand in the crane gondola.

10:00 Visit group selection harvests in Douglas-fir forests (experimental gaps)

12:00 Lunch

1:00 Visit variable retention harvest (DEMO replication) experiments covering aggregated versus dispersed retention harvest and 15% versus 40% tree retention.

Recommended lodging for the Wind River session: Best Western Columbia River Inn, Cascade Locks, OR, 541-374-8777.

Program questions can be directed to Michael Sterner at (503) 478-0800 or msterner@iforest.com.

Ecological Forestry Registration Form • June 29-July 1, 2004

Name _____

Title and Organization _____

Address _____

City, State, ZIP _____

Telephone _____ Fax _____

Email _____

Registration Fee:

- \$850 for HJ Andrews session
 \$175 for optional Wind River tour

Method of Payment:

Check and make checks payable to WFCA.

Purchase Order #: _____

Charge to (circle): Visa Mastercard
 Am. Express Discover

Account Number _____

Expiration Date _____

Send registration form and payment to session registration managers:

Western Forestry and Conservation Association

4033 SW Canyon Road
Portland, OR 97221
phone 503-226-4562
toll free 888-722-9416
fax 503-226-2515

Registration questions? Contact Aimee at 503-226-4562 or aimee@westernforestry.org.

SESSION INFORMATION

Location: The course will be held at the H. J. Andrews Experimental Forest located in the Willamette National Forest in the Cascade Range, 45 minutes east of Eugene, OR. One of the three days will be spent visiting eastside pine and mixed conifer forests, a stand replacement fire (B&B Complex) and fuel treatment projects.

Lodging: Lodging will be provided as part of the registration fee. Additional lodging information will be provided with your registration confirmation.

Registration Fee: The registration fee is \$850, which includes field transportation, course notebook of instructor materials, lodging (nights of June 28, 29, and 30) and meals (breakfast, lunch and dinner on June 29, 30; breakfast and lunch July 1). The optional fourth day at the Wind River canopy crane can be added for an additional \$175. Funding assistance will be available for non-profit organization employees. Please request an application for assistance when registering, either in writing on the application or by phone. Contact: Michael Sterner, (503) 478-0800; msterner@iforest.com

SAF CFE credits: The course provides 11 Category 1 Continuing Forestry Education credits for Society of American Foresters members.

Sponsors: **The Conservation Fund** (www.conservationfund.org) forges partnerships to protect America's legacy of land and water resources. Through land acquisition, sustainable programs, and leadership training, the Fund and its partners demonstrate effective conservation solutions emphasizing the integration of economic and environmental goals. **Interforest, LLC** (www.iforest.com) is a consulting firm that provides integrated solutions for natural resource enterprises and agencies. They solve organizational, resource and policy problems and create opportunities for clients seeking excellence in resource management. Interforest has an international network of consultants and offices in Portland, OR and Branford, CT

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